

CLEAN VERSION OF PENDING CLAIMS

1. A personal computer system comprising:
 - a plurality of audio digital-to-analog converters; and
 - a controller configured to receive digital audio signals from multiple sources and route the digital audio signals to a selected digital-to-analog converter based on a desired converter quality.
2. A personal computer system comprising:
 - one or more standard digital audio sources;
 - one or more high quality digital audio sources;
 - means for routing digital audio signals from standard digital audio sources to a standard quality digital-to-analog converter; and
 - means for routing digital audio signals from a high-quality digital audio source to a high quality digital-to-analog converter.
3. The personal computer system of claim 2 where any of the high quality or standard quality digital-to-analog converters are coder-decoders (CODECs) that contain both digital-to-analog converters and analog-to-digital converters.
4. The personal computer system of claim 1 where a user configures the controller such that the controller assigns a digital-to analog converter and a priority to each of the plurality of audio sources, and the controller routes the digital audio signal with the highest priority for each of the digital-to-analog converters to its assigned digital-to-analog converter.
5. The personal computer system of claim 1 where a user configures the controller by hardware or software controls, such that the controller routes a selected analog signal to a selected one of a plurality of analog outputs.

6. The personal computer system of claim 5 where the selected analog signal is provided by one of a group consisting of the digital-to-analog converters, Compact Disc players, DVD players, microphones, TV tuners, or analog inputs.

7. The personal computer system of claim 1, further comprising a standard personal computer bus for transferring the digital audio signal from the digital audio source to the controller.

8. The personal computer system of claim 1 where the digital audio signal is transferred from the digital audio source to the controller by a direct electrical or optical connection between the two.

9. A method of routing digital audio to a plurality of digital-to-analog converters in a personal computer comprising the steps of:

- receiving digital audio data from one of a plurality of digital audio sources; and
- routing the digital audio data to one of a plurality of converters based on desired converter quality.

10. The method of claim 9 and further comprising the steps of:

- assigning digital audio data from each source a priority;
- assigning digital audio data from each source to one of the plurality of converters;
- determining which digital audio data has the highest priority among all data assigned to each converter; and
- converting the digital audio data in each converter with the highest priority to analog audio.

11. A method of routing digital audio to a plurality of audio digital-to-analog converters in a personal computer comprising the steps of:

- receiving digital audio from one of a plurality of digital audio sources;

assigning digital audio data from each source a priority; and
routing the digital audio data to one of a plurality of converters in an order
determined by the assigned data priority.

12. A personal computer system comprising:

memory;
a processor;
a bus;
a plurality of digital audio converters; and
a controller configured to receive digital audio signals from multiple sources and
route the digital audio signals to a selected digital-to-analog converter based on
desired converter quality.

13. A method of routing digital audio signals in a personal computer comprising the steps of:

routing digital audio signals from standard digital audio sources to a standard
quality digital-to-analog converter; and
routing digital audio signals from high-quality audio sources to a high-quality digital-to-analog
converter.